

Title (en)
FLAME RETARDANT ELECTRICAL CABLE

Title (de)
FLAMMHEMMENDES ELEKTRISCHES KABEL

Title (fr)
CÂBLE ÉLECTRIQUE IGNIFUGE

Publication
EP 3712907 A1 20200923 (EN)

Application
EP 20162325 A 20200311

Priority
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Abstract (en)
A flame-retardant electric cable (10) is disclosed, the cable (10) having a core comprising an electric conductor (11) and an electrically insulating layer (12) comprising a flame-retardant polyolefin-based composition comprising:a) as base polymer, a mixture of at least two polyolefin homopolymers and/or copolymer wherein at least one is a low-density polyethylene copolymer having a density lower than 0.915 g/cm³;b) calcinated kaolin in an amount greater than 3 phr;c) a metal hydroxide in an amount greater than 10 phr; andd) an alkyl or alkenyl alkoxy siloxane, wherein the alkyl or alkenyl alkoxy siloxane is in an amount ratio of from 1:25 to 1:50 with respect to the sum of the amounts of calcinated kaolin and of the metal hydroxide.

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H01B 7/295 (2006.01); **H01B 3/44** (2006.01)

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Citation (applicant)
• US 2003134969 A1 20030717 - SCHLOSSER THOMAS [DE], et al
• US 6750282 B1 20040615 - SCHALL NORBERT [DE], et al
• CN 102219948 A 20111019 - HUBEI KEPUDA IND CO LTD

Citation (search report)
• [A] US 2002001715 A1 20020103 - REDONDO EDUARDO GRIZANTE [IT], et al
• [A] US 2014030520 A1 20140130 - NAKAMURA YOSHIKI [JP], et al
• [A] WO 2013030795 A1 20130307 - R & D INNOVATION S R L [IT], et al

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